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PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCI

FIRST NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION (TO DESIGNATED OFFICES WHICH DO NOT APPLY THE 30 MONTH TIME LIMIT UNDER ARTICLE 22(1))

(PCT Rule 47.1(c))

To:

OKABE, Masao No. 602, Fuji Bldg. 2-3, Marunouchi 3-chome Chiyoda-ku, Tokyo 1000005 JAPON



Applicant's or agent's file reference

12 January 2006 (12.01.2006)

Date of mailing (day/month/year)

Applicant's or agent's file reference 10003897WO01

IMPORTANT NOTICE

International application No. PCT/JP2005/010998

International filing date (day/month/year) 09 June 2005 (09.06.2005) Priority date (day/month/year)
11 June 2004 (11.06.2004)

Applicant

CANON KABUSHIKI KAISHA et al

- ATTENTION: For any designated Office(s), for which the time limit under Article 22(1), as in force from 1 April 2002 (30 months from the priority date), does apply, please see Form PCT/IB/308(Second and Supplementary Notice) (to be issued promptly after the expiration of 28 months from the priority date).
- Notice is hereby given that the following designated Office(s), for which the time limit under Article 22(1), as in force from 1 April 2002, does not apply, has/have requested that the communication of the international application, as provided for in Article 20, be effected under Rule 93bis.1. The International Bureau has effected that communication on the date indicated below:
 22 December 2005 (22.12.2005)

CH

In accordance with Rule 47.1(c-bis)(i), those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

3. The following designated Offices, for which the time limit under Article 22(1), as in force from 1 April 2002, does not apply, have not requested, as at the time of mailing of the present notice, that the communication of the international application be effected under Rule 93bis.1:

LU, SE, TZ, UG, ZM

In accordance with Rule 47.1(c-bis)(ii), those Offices accept the present notice as conclusive evidence that the Contracting State for which that Office acts as a designated Office does not require the furnishing, under Article 22, by the applicant of a copy of the international application.

4. TIME LIMITS for entry into the national phase

For the designated Office(s) listed above, and unless a demand for international preliminary examination has been filed before the expiration of 19 months from the priority date (see Article 39(1)), the applicable time limit for entering the national phase will, subject to what is said in the following paragraph, be 20 MONTHS from the priority date.

In practice, time limits other than the 20-month time limit will continue to apply, for various periods of time, in respect of certain of the designated Offices listed above. For regular updates on the applicable time limits (20 or 21 months, or other time limit), Office by Office, refer to the PCT Gazette, the PCT Newsletter and the PCT Applicant's Guide, Volume II, National Chapters, all available from WIPO's Internet site, at http://www.wipo.int/pct/en/index.html.

It is the applicant's sole responsibility to monitor all these time limits.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Masashi Honda

Facsimile No.+41 22 740 14 35

Facsimile No.+41 22 338 70 10

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	PCT				
To: OKABE, Masao No. 602, Fuji Bldg. 2-3, Marunouchi 3-chome Chiyoda-ku Tokyo 1000005 JAPAN	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION				
(Asia - 17)	(PCT Rule 44.1)				
	Date of mailing (day/month/year) 05/12/2005				
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 below				
10003897WO01					
International application No.	International filing date (day/month/year) 09/06/2005				
PCT/JP2005/010998 Applicant					
CANON KABUSHIKI KAISHA					
The applicant is hereby notitied that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith. Filling of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): When? The time limit for filing such amendments is normally two months from the date of transmittal of the International Search Report. Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41–22) 338.82.70 For more detailed instructions, see the notes on the accompanying sheet. International Search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the international Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90.bis.3, respectively, before the completion of the technical preparations for international publication. The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau will send a copy of such comments to all designated Offices unless an int					
Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer · Alicja Van der Heijden				

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER s		see Form PCT/ISA/220			
10003897WO01	ACTION as well		as, where applicable, item 5 below.			
			(Earliest) Priority Date (day/month/year)			
PCT/JP2005/010998	09/06/2005		11/06/2004			
Applicant						
CANON KABUSHIKI KAISHA						
This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.						
This International Search Report consists	of a total of sf	eets.				
X It is also accompanied by	a copy of each prior art document	cited in this	report.			
Basis of the report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.						
The international this Authority (Ru	search was carried out on the bask le 23.1(b)).	of a trans	lation of the International application furnished to			
b. With regard to any nucle	otide and/or amino acid sequenc	e disclosed	in the international application, see Box No. I.			
2. Certain claims were fou	nd unsearchable (See Box II).					
3. Unity of invention is lac	king (see Box III).					
4. With regard to the title,						
X the text is approved as su	ubmitted by the applicant.					
the text has been establis	shed by this Authority to read as fol	ows:	·			
			-			
			·			
5 : MON						
5. With regard to the abstract, X the text is approved as si	ubmitted by the applicant.					
the text has been established	shed, according to Rule 38,2(b), by	this Author	nity as it appears in Box No. IV. The applicant			
may, within one month fr	om the date of mailing of this intern	ational sea	rch report, submit comments to this Authority.			
6. With regard to the drawings,						
a. the figure of the drawings to be	published with the abstract is Figur	e No				
as suggested by	the applicant.	-				
as selected by th	is Authority, because the applicant	tailed to su	uggest a figure.			
	his Authority, because this figure be	tter charac	terizes the invention.			
b none of the figures is to	be published with the abstract.					

INTERNATIONAL SEARCH REPORT

International Application No PCT/JP2005/010998

A. CLASSI	FICATION OF SUBJECT MATTER C08G63/688 C08G63/06 C08G63/	/ 91			
According to International Patent Classification (IPC) or to both national classification and IPC					
	SEARCHED				
Minimum do	ocumentation searched (classification system followed by classification ${\tt C08G}$	ation symbols)			
Documenta	illon searched other than minimum documentation to the extent tha	I such documents are included in the fields se	arched		
Electronic d	data base consulted during the international search (name of data	base and, where practical, search terms used			
EPO-In	ternal, WPI Data, PAJ				
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.		
Α	EP 1 336 635 A (CANON KABUSHIKI 20 August 2003 (2003-08-20) claim 2	KAISHA)	1		
A	WO 2004/038512 A (CANON KABUSHI MIHARA, CHIEKO; YANO, TETSUYA; SHINYA;) 6 May 2004 (2004-05-06 claim 1	3			
А	WO 2004/044213 A (CANON KABUSHI KENMOKU, TAKASHI; YANO, TETSUYA CHIEK) 27 May 2004 (2004-05-27) claim 1	4			
P,A	WO 2004/061530 A (CANON KABUSHI MIHARA, CHIEKO; YANO, TETSUYA; SHINYA;) 22 July 2004 (2004-07-claim 1	KOZAKI,	1		
Fur	rther documents are listed in the continuation of box C.	χ Patent family members are listed	in annex.		
	categories of cited documents:	*T* later document published after the intermediate.	ernational filing date		
A document defining the general state of the art which is not considered to be of particular relevance or priority date and not in conflict with the application or priority date and not in conflict with the application					
filing "L" docum	date nent which may throw doubts on priority claim(s) or h is cited to establish the publication date of another	"X" document of particular relevance; the cannot be considered novel or cannot involve an inventive step when the decimal involve and inventive step when the decimal involves and inventive step when the decimal involves in the step when t	ot be considered to ocument is taken alone		
which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document referring to an oral disclosure, use, exhibition or other means *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled					
P docum	ment published prior to the International fifing date but than the priority date claimed	in the art. *8" document member of the same paten			
Date of the	e actual completion of the international search	Date of mailing of the international se	arch report		
	25 November 2005	05/12/2005			
Name and	d mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer			
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Niaounakis, M			

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/JP2005/010998

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 1336635	Α	20-08-2003	CN JP JP US	1446835 A 3689697 B2 2004197063 A 2004081906 A1	08-10-2003 31-08-2005 15-07-2004 29-04-2004
WO 2004038512	Α	06-05-2004	AU US	2003274744 A1 2005260514 A1	13-05-2004 24-11-2005
WO 2004044213	Α	27-05-2004	AU JP	2003274742 A1 2004162044 A	03-06-2004 10-06-2004
WO 2004061530	Α	22-07-2004	AU EP JP	2003295241 A1 1579277 A1 2005154699 A	29-07-2004 28-09-2005 16-06-2005

PATENT COOPERATION TREATY

То:				PCT			
see form PCT/ISA/220				WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)			
Applicant's or agent's file reference see form PCT/ISA/220				FOR FURTHER ACTION See paragraph 2 below			
	International application No. International filin PCT/JP2005/010998 09.06.2005			(day/month/year) Priority date (day/month/year) 11.06.2004			
	national Patent Class G63/688, C08G6						
Appli CAN	cant ION KABUSHIK	I KAISHA					

1.	This opinion co	ntains indicati	ons relating to the follo	owing items:			
	☑ Box No. 1 Basis of the opinion						
	☐ Box No. II	Priority			·		
	☐ Box No. III	Non-establish	ment of opinion with rega	ard to novelty, inventi	ve step and industrial applicability		
	☐ Box No. IV	Lack of unity of					
	☑ Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
	Box No. VI	Certain docum	nents cited				
	☐ Box No. VII		s in the international app				
	☐ Box No. VIII	Certain observ	vations on the internation	nal application			
2.	FURTHER ACT						
If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.							
	submit to the IPI	EA a written rep date of mailing	ly together, where appro	poriate, with amendm	e IPEA, the applicant is invited to lents, before the expiration of three n of 22 months from the priority date,		
	For further optio	ns, see Form P	CT/ISA/220.				
3.	For further detai	ls, see notes to	Form PCT/ISA/220.				
L				·····			



European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016

Niaounakis, M Telephone No. +31 70 340-3818



IAP5 Rec'd PCT/PTO 10 FEB 2006

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2005/010998

10/567762

	Вох	No	o. I Basis of the opinion
1.	With the I	reç anç	gard to the language , this opinion has been established on the basis of the international application in guage in which it was filed, unless otherwise indicated under this item.
		lan	is opinion has been established on the basis of a translation from the original language into the following guage , which is the language of a translation furnished for the purposes of international search or representation of the purposes of international search or representation of the purpose of international search or representation of the purpose of international search or representation or represent
2.	With	re ess	gard to any nucleotide and/or amino acid sequence disclosed in the international application and ary to the claimed invention, this opinion has been established on the basis of:
	a. ty	pe	of material:
	כ)	a sequence listing
		3	table(s) related to the sequence listing
	b. fo	orm	at of material:
	C)	in written format
	ι	ב	in computer readable form
	c. ti	me	of filing/furnishing:
	(]	contained in the international application as filed.
	[filed together with the international application in computer readable form.
	[furnished subsequently to this Authority for the purposes of search.
		-	
3.		ha co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as opropriate, were furnished.
4	Add	oitit	onal comments:

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or Box No. V industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-10

Claims

Inventive step (IS)

Yes: Claims

1-10

Claims

Industrial applicability (IA)

Yes: Claims

1-10

No: Claims

2. Citations and explanations

see separate sheet

Box No. VI Certain documents cited

1. Certain published documents (Rules 43bis.1 and 70.10) and /or

2. Non-written disclosures (Rules 43bis.1 and 70.9)

see form 210

Re Item V.

Reference is made to the following documents (D1-D3), especially to the passages referred to in the Search Report; the numbering will be adhered to in the rest of the procedure:

D1: EP 1 336 635 A (CANON KABUSHIKI KAISHA) 20 August 2003 (2003-08-20)

D2: WO 2004/038512 A (CANON KABUSHIKI KAISHA; MIHARA, CHIEKO; YANO, TETSUYA; KOZAKI, SHINYA;) 6 May 2004 (2004-05-06)

D3: WO 2004/044213 A (CANON KABUSHIKI KAISHA; KENMOKU, TAKASHI; YANO, TETSUYA; MIHARA, CHIEK) 27 May 2004 (2004-05-27)

D1 relates to a polyxyhdroxyalkanoate which contains a unit having an amide group and a sulfonic acid group on a side-chain. However, the structure of the side-chain of the polyhydroxyalkanoate of D1 is different from the side-chain of the polyhydroxyalkanoate of the present application (formula 1 of claim 1) because it contains additionally a sulfide group (-S-).

D2 relates to a polyhydroxyalkanoate copolymer which contains a unit having a carboxyl group on a side chain. Although the side-chain of the polyhydroxyalkanoate of D1 is similar to the side-chain of the polyhydroxyalkanoate of the present application (formula 5 of claim 3), the structure of its main-chain is different.

D3 relates to a polyhydroxyalkanoate copolymer which contains a unit having a vinyl group on a side chain. Although the side-chain of the polyhydroxyalkanoate of D1 is similar to the side-chain of the polyhydroxyalkanoate of the present application (formula 6 of claim 4), the structure of its main-chain is different.

Therefore, the subject-matter of claims: 1-10 is considered to be novel and inventive (Article 33(1)(2)(3) PCT).

Furthermore, all claims fulfill the requirements of industrial applicability (Article 33(4) PCT).

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